



Dart Hawkesbury
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

646.9502

Job Sheet 165979



Part No: 646.9502

Job Qty: 1 ea

Part Name: 206A/B/L-Series Cable Cutter System, Low



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 9/30/17

Job Tracking No:

Due Date: 10/31/17

Created By: Mario Poulin

Type: Stock

Description:

Customer: L3 Army Fleet Support LLC (CARMY01)

Army Fleet Support Cairns Field Bldg 30300 Specker Street Fort Rucker, AL, 36362 USA ph:(334) 255-8373

Note: DWG REV N/C IPP REV:A 12.08.28 NEW ISSUE DD VERF:JLM

Ship Via:

Bill of Materials

Part/Part Name	Part Note	Serial No	Quantity	Location
646.9502 206A/B/L-Series Cable Cutter System, Low	DWG REV N/C IPP REV:A 12.08.28 NEW ISSUE DD VERF:JLM		0.000	
600.0990 Magnabond 6398 Part A Size 112 ml			0.000	
600.0991 Magnabond 6398 Part B Size 112 ml			0.000	
600.1012 Sealant PR1425B2 (#654 sem)			0.000	
646.9601 Upper Cutter Assembly	DWG REV N/C IPP REV:A 12.08.13 NEW ISSUE DD VERF:JFS	5060187	0.000	
646.9603 Lower Cutter Assembly Low	DWG REV N/C IPP REV:A 12.08.13 NEW ISSUE DD VERF:JFS		0.000	
646.9810 Deflector	DWG REV A SHEETS 1,2,3 IPP REV:A NEW ISSUE 13/04/01 JFS VERIFIED BY:DD		0.000	
646.9910 Struts	DWG REV N/C IPP REV:A NEW ISSUE 12-09-19 JLM VERIFIED BY:DD		0.000	
647.0110 Roof Doubler	DWG REV A1 IPP REV:A 12.08.14 NEW ISSUE DD VERF:JFS		0.000	
647.0111 Panel	DWG REV A1 SHEET 2 IPP REV:A 12.08.14 NEW ISSUE DD VERF:JFS		0.000	
647.0112 Strut Bracket	DWG REV A SHEET 3 IPP REV:A 12.08.14 NEW ISSUE DD VERF:JFS		0.000	
647.0113 Strut Doubler	DWG REV A1 SHEET 4 IPP REV:A 12.08.14 NEW ISSUE DD VERF:JFS		0.000	
647.0114 Clip	DWG REV A1 SHEET 5 IPP REV:A 12.08.14 NEW ISSUE DD VERF:JFS IPP REV:B 13.09.10 NOW MADE AT GFI DD VERF:JLM		0.000	
647.0115 Clip	DWG REV A1 SHEET 5 IPP REV:A 12.08.14 NEW ISSUE DD VERF:JFS IPP REV:B 13.09.10 NOW MADE AT GFI DD VERF:JLM		0.000	
647.0116 Doubler	DWG REV A1 SHEET 6 IPP REV:A 12.08.14 NEW ISSUE DD VERF:JFS		0.000	
647.0210 Rail	DWG REV N/C IPP REV:A NEW ISSUE 12/10/02 JFS VERIFY BY: DD		0.000	
647.0310 Channel	DWG REV N/C IPP REV: A NEW ISSUE 12/09/18 JFS VERIFY BY DD		0.000	
647.0410 Tube	DWG REV N/C IPP REV:A 12.09.18 NEW ISSUE DD VERF:JLM		0.000	

500245

DART
AEROSPACE
S037278


206A/B/L – Series Cable Cutter System, Low

PART NO: 646.9502
Original Serial #: S037278
Revision:
Operation:
Change No:

Start up Operation 01/31/18

Job No: 165979

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL.: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

647.1210	DWG REV N/C IPP REV:A 12.08.14 NEW ISSUE DD VERF:JFS	0.000
Screen		
AN3-10A		0.000
Bolt		
AN3-11A		0.000
Bolt		
AN3-3A		0.000
Bolt		
AN743-13		0.000
Bracket		
CCR264SS-3-06		0.000
Rivet		
CCR264SS3-04		0.000
Rivet		
CCR264SS3-2		0.000
Rivet, Cherry		
CR3212-4-4		0.000
Cherry Rivet		
CR3212-5-4		0.000
Cherry Rivet		
CR3213-4-05		0.000
Rivet		
CR3213-4-1		0.000
Cherry Rivet		
CR3213-4-2		0.000
Cherry Rivet		
CR3213-4-3		0.000
Rivet, Cherry		
CR3213-4-4		0.000
Rivet, Cherry		
CR3213-4-6		0.000
Rivet		
MS21042-08		0.000
Use Ms21042L08		
MS21042-3		0.000
Nut		
MS21047-3		0.000
Nut Plate		
MS21059-3		0.000
Nut Plate		
MS21059L08		0.000
Nut		
MS24694-S8		0.000
Screw		
MS27039-08-06	DWG REV PA6	0.000
Screw		
MS27039-08-09		0.000
Screw		
MS27039-08-11		0.000
Screw		
MS27039-08-12		0.000
Screw		
MS27039-08-13		0.000
Screw		
MS27039-1-08		0.000
Screw		
MS27039-1-11		0.000
Screw		
MS35842-11		0.000
Hose Clamp		
NAS1149F0332P		0.000
Washer		
NAS1149FN832P		0.000
Washer		
NAS1835-08		0.000
Insert		

Job Routing

Op No	Operation	Qty	Due Date	Standard		Workcenter/Supplier	
				Setup hrs	Run Hrs	Workcenter / Supplier	Lead Time
90	Start up Operation	1 Ea	10/31/17	0.00	0.00	Start up container	
100	DC	1 pcs	10/31/17	0.00	0.00	DC	
110	Packaging	1 pcs	10/31/17	0.00	0.00	Packaging1	APR 18 2018
120	QC	1 pcs	10/31/17	0.00	0.00	QC4	
130	Packaging	1 pcs	10/31/17	0.00	0.00	Packaging3	
140	QC21-FG	1 Ea	10/31/17	0.00	0.00	QC21	

Part Op 100 - Photocopy bluefile & type labels per PPP 646.9502
 Descriptions: 130 - Identify and pack for shipping as per PPP 646.9502 Location : FG101

DAS

21

9-89

APR 19 2018

Job Allocations

Operation	Component Part	Required	Inventory	Allocated	Std Qty
90-Start up Operation	600.0990	1	0	0	0
	600.0991	1	0	0	0
	600.1012	1	0	0	0
	646.9601	1	0	0	0
	646.9603	1	0	0	0
	646.9810	1	0	0	0
	646.9910	4	0	0	0
	647.0110	1	0	0	0
	647.0111	1	0	0	0
	647.0112	8	0	0	0
	647.0113	2	0	0	0
	647.0114	1	0	0	0
	647.0115	1	0	0	0
	647.0116	2	0	0	0
	647.0210	1	0	0	0
	647.0310	2	0	0	0
	647.0410	1	0	0	0
	647.1210	1	0	0	0
	AN3-10A	8	0	0	0
	AN3-11A	8	0	0	0
	AN3-3A	1	0	0	0
	AN743-13	1	0	0	0
	CCR264SS-3-06	8	0	0	0
	CCR264SS3-04	12	0	0	0
	CCR264SS3-2	4	0	0	0
	CR3212-4-4	1	0	0	0
	CR3212-5-4	8	0	0	0
	CR3213-4-05	26	0	0	0
	CR3213-4-1	14	0	0	0
	CR3213-4-2	18	0	0	0
	CR3213-4-3	18	0	0	0
	CR3213-4-4	19	0	0	0
	CR3213-4-6	20	0	0	0
	MS21042-08	54	0	0	0
	MS21042-3	17	0	0	0
	MS21047-3	6	0	0	0
	MS21059-3	2	0	0	0
	MS21059L08	4	0	0	0
	MS24694-S8	5	0	0	0
	MS27039-08-06	4	0	0	0
	MS27039-08-09	4	0	0	0
	MS27039-08-11	43	0	0	0
	MS27039-08-12	2	0	0	0
	MS27039-08-13	6	0	0	0
	MS27039-1-08	5	0	0	0
	MS27039-1-11	5	0	0	0
	MS35842-11	1	0	0	0
	NAS1149F0332P	62	0	0	0
	NAS1149FN832P	111	0	0	0
	NAS1835-08	4	0	0	0

Part Specifications

Specifications could not be found.

Plex 10/2/17 1:31 PM Dart.la@unnesse.mare

Quality Control

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval 	
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____			
Misidentified ☐		Past Due ☐					

Work Order ID 165979***165979***

Page 2

Wednesday, September 06, 2017 3:13:20 PM

Item ID: 646.9502 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: 206A/B/L-Series Cable Cutter System, Low
Start Date: 9/6/2017 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 9/13/2017 Req'd Qty: 1.00 ***1*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* Packaging	Identify as per dwg & Stock Location: _____ Packaging	0.00							
Packaging	Memo Identify and pack for shipping as per PPP 646.9502 Location :FG101	0.00							
140 *140* QC	QC21- Final Inspection - Work Order Release	0.00							
Quality Control	Memo	0.10							

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

Wednesday, September 06, 2017 3:13:23 PM

Page 1

Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.08.28 NEW ISSUE DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

600.0990		Purchased	No			110	Each	18.0000	1	1			
----------	--	-----------	----	--	--	-----	------	---------	---	---	--	--	--

600 0990

Magnabond 6398 Part A Size 112 ml

Location

Loc Qty

Loc Code

PKG

18

M136586

1

M136862

1

M137073

1

M137495

4

M137712

7

M138326

4

600.0991		Purchased	No			110	Each	19.0000	1	1			
----------	--	-----------	----	--	--	-----	------	---------	---	---	--	--	--

600 0991

Magnabond 6398 Part B Size 112 ml

Location

Loc Qty

Loc Code

PKG

19

m136586

2

m136862

1

m137073

1

m137495

4

m137712

7

m138326

4

600.1012		Purchased	No			110	Each	9.0000	1	1			
----------	--	-----------	----	--	--	-----	------	--------	---	---	--	--	--

600 1012

Sealant PR1425B2 (#654 sem)

Location

Loc Qty

Loc Code

cck017

9

m138326

9

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

Picklist Print

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Page 2

Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

646.9601 Manufactured No

110 Each 0.0000 1 1

646 9601

Upper Cutter Assembly

646.9603 Manufactured No

110 Each 3.0000 1 1

646 9603

Lower Cutter Assembly Low

Location

Loc Qty

Loc Code

CCK036

3

160092

3

5/10/2018

646.9810 Manufactured No

110 Each 0.0000 1 1

646 9810

Deflector

646.9910 Manufactured No

110 Each 0.0000 4 4

646 9910

Struts

647.0110 Manufactured No

110 Each 0.0000 1 1

647 0110

Roof Doubler

647.0111 Manufactured No

110 Each 3.0000 1 1

647 0111

Panel

Location

Loc Qty

Loc Code

CCK088

3

159852

3

647.0112 Manufactured No

110 Each 0.0000 8 8

647 0112

Strut Bracket

647.0113 Manufactured No

110 Each 0.0000 2 2

647 0113

Strut Doubler

Wednesday, September 06, 2017 3:13:23 PM

Shop Packet Print

Page 2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

Picklist Print

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Page 3

Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

647.0114 Manufactured No

110 Each 41.0000 1 1

647 0114

Clip

Location

Loc Qty

Loc Code

CCK106

41

106616

41

647.0115 Manufactured No

110 Each 36.0000 1 1

647 0115

Clip

Location

Loc Qty

Loc Code

CCK106

36

106617

36

647.0116 Manufactured No

110 Each 24.0000 2 2

647 0116

Doubler

Location

Loc Qty

Loc Code

CCK107

24

159857

24

647.0210 Manufactured No

110 Each 0.0000 1 1

647 0210

Rail

647.0310 Manufactured No

110 Each 0.0000 2 2

647 0310

Channel

647.0410 Manufactured No

110 Each 2.0000 1 1

647 0410

Tube

Location

Loc Qty

Loc Code

CCK107

2

159786

2

Wednesday, September 06, 2017 3:13:23 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : _____					

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Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

647.1210 Manufactured No

110 Each 22.0000 1 1

647 1210

Screen

Location

Loc Qty

Loc Code

CCK107

22

159856

21

165091

1

AN3-10A Purchased No

110 Each 192.0000 8 8

AN3-10A

Bolt

Location

Loc Qty

Loc Code

GA

38

m136787

38

ST349

154

m138326

154

AN3-11A Purchased No

110 Each 63.0000 8 8

AN3-11A

Bolt

Location

Loc Qty

Loc Code

ST349

63

m136192

63

AN3-3A Purchased No

110 Each 108.0000 1 1

AN3-3A

Bolt

Location

Loc Qty

Loc Code

ST350

108

m137853

33

m138207

25

m138409

50

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐					

Picklist Print

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Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

AN743-13 Purchased No

110 Each 24.0000 1 1

AN743-13

Bracket

Location

Loc Qty

Loc Code

ST330

24

M136665

4

M138326

20

CCR264SS3-04 Purchased No

110 Each 234.0000 12 12

CCR264SS3-04

Rivet

Location

Loc Qty

Loc Code

ST321

234

m137391

34

m138333

200

CCR264SS-3-06 Purchased No

110 Each 284.0000 8 8

CCR264SS-3-06

Rivet

Location

Loc Qty

Loc Code

ST321

284

m138333

284

CCR264SS3-2 CCR264SS3-02 Purchased No

110 Each 200.0000 4 4

CCR264SS3-2

Rivet, Cherry

Location

Loc Qty

Loc Code

CCK003

200

m138333

200

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐					
OTHER : ☐									

Picklist Print

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Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

CR3212-4-4 CR3212-4-04 Purchased No

110 Each 100.0000 1 1

CR3212-4-4

CHERRY RIVET

Location

Loc Qty

Loc Code

CCK003

100

m138333

100

CR3212-5-4 Purchased No

110 Each 168.0000 8 8

CR3212-5-4

Cherry Rivet

Location

Loc Qty

Loc Code

ST320

168

m138336

168

CR3213-4-05 Purchased No

110 Each 206.0000 26 26

CR3213-4-05

RIVET

Location

Loc Qty

Loc Code

ST319

206

m138326

206

CR3213-4-1 Purchased No

110 Each 270.0000 14 14

CR3213-4-1

Cherry Rivet

Location

Loc Qty

Loc Code

ST320

270

m138336

270

CR3213-4-2 Purchased No

110 Each 266.0000 18 18

CR3213-4-2

Cherry Rivet

Location

Loc Qty

Loc Code

ST320

266

m138336

266

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							

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Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

CR3213-4-3	Purchased	No	110	Each	378.0000	18	18
------------	-----------	----	-----	------	----------	----	----

CR3213-4-3

Rivet, Cherry

Location

Loc Qty

Loc Code

GA

92

m136042

92

ST319

286

m138326

286

CR3213-4-4	Purchased	No	110	Each	390.0000	19	19
------------	-----------	----	-----	------	----------	----	----

CR3213-4-4

Rivet, Cherry

Location

Loc Qty

Loc Code

CCK003

390

m138333

390

CR3213-4-6	Purchased	No	110	Each	353.0000	20	20
------------	-----------	----	-----	------	----------	----	----

CR3213-4-6

Rivet

Location

Loc Qty

Loc Code

ST319

353

M138333

353

MS21042-08	MS21042L08	Purchased	No	110	Each	0.0000	54	54
------------	------------	-----------	----	-----	------	--------	----	----

MS21042-08

USE MS21042L08

MS21042-3	MS21042L3	Purchased	No	110	Each	0.0000	17	17
-----------	-----------	-----------	----	-----	------	--------	----	----

MS21042-3

Nut

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____	
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		OTHER : ☐							

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Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

MS21047-3 Purchased No

110 Each 81.0000 6 6

MS21047-3

Nut Plate

Location

Loc Qty

Loc Code

ST301

81

m138040

81

MS21059-3 Purchased No

110 Each 395.0000 2 2

MS21059-3

Nut Plate

Location

Loc Qty

Loc Code

ST301

395

123023

12

123900

383

MS21059L08 Purchased No

110 Each 162.0000 4 4

MS21059L08

Nut

Location

Loc Qty

Loc Code

ST300

162

m136554

62

m138326

100

MS24694-S8 Purchased No

110 Each 169.0000 5 5

MS24694-S8

Screw

Location

Loc Qty

Loc Code

ST285

169

M134654

19

M138333

150

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐								
		OTHER :							

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Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-06 Purchased No

110 Each 214.0000 4 4

MS27039-08-06

Screw

Location

Loc Qty

Loc Code

ST278

214

m126249

14

m138326

200

MS27039-08-09 Purchased No

110 Each 137.0000 4 4

MS27039-08-09

Screw

Location

Loc Qty

Loc Code

ST278

137

m135536

12

m138333

125

MS27039-08-11 Purchased No

110 Each 1,488.000 43 43

MS27039-08-11

SCREW

Location

Loc Qty

Loc Code

over006

1000

m138336

1000

ST278

488

m138336

488

MS27039-08-12 Purchased No

110 Each 88.0000 2 2

MS27039-08-12

Screw

Location

Loc Qty

Loc Code

ST278

88

124326

88

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER :							
Misidentified ☐	☐	Past Due								

Picklist Print

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Work Order ID: 165979

165979

Parent Item: 646.9502

646 9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

110

Each

160.0000

6

6

MS27039-08-13

Screw

Location

Loc Qty

Loc Code

ST278

160

153849

160

MS27039-1-08

Purchased

No

110

Each

281.0000

5

5

MS27039-1-08

Screw

Location

Loc Qty

Loc Code

FP001

234

m137361

26

m138209

208

GA

22

m128636

22

ST281

25

m137820

25

MS27039-1-11

Purchased

No

110

Each

226.0000

5

5

MS27039-1-11

Screw

Location

Loc Qty

Loc Code

ST280

226

m137544

26

m138326

200

MS35842-11

Purchased

No

110

Each

36.0000

1

1

MS35842-11

Hose Clamp

Location

Loc Qty

Loc Code

ST545

36

m134943

6

m138326

30

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Shop Packet Print

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY					
Environment ☐		No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐		
Design ☐		Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐		
Doc/Data ☐		Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐		
Equip/Tooling ☐		Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐		
Handling/Pre ☐		Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐		
Material ☐		Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐		
Internal Transport ☐		Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐		
Tribal Knowledge ☐		Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐		
LOA ☐		Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐		
Substation ☐		Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐		
Past Expiry Date ☐		Manufacturing Process ☐	OTHER : _____					
Misidentified ☐		Past Due ☐						

Picklist Print

Wednesday, September 06, 2017 3:13:23 PM

Page 11

Work Order ID: 165979

165979

Parent Item: 646.9502

646.9502

Parent Item Name: 206A/B/L-Series Cable Cutter System, Low

Start Date: 9/6/2017

Required Date: 9/13/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0332P

Purchased

No

110

Each

1,449.000

62

62

NAS1149F0332P

Washer

Location

Loc Qty

Loc Code

GA

125

m133709

125

ST262

1324

m138209

1324

NAS1149FN832P

Purchased

No

110

Each

4,840.000

111

111

NAS1149FN832P

Washer

Location

Loc Qty

Loc Code

GA

2967

M137820

467

M138336

2500

ST263

1873

M138336

1873

NAS1835-08

Purchased

No

110

Each

140.0000

4

4

NAS1835-08

Insert

Location

Loc Qty

Loc Code

st549

140

m138336

140

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

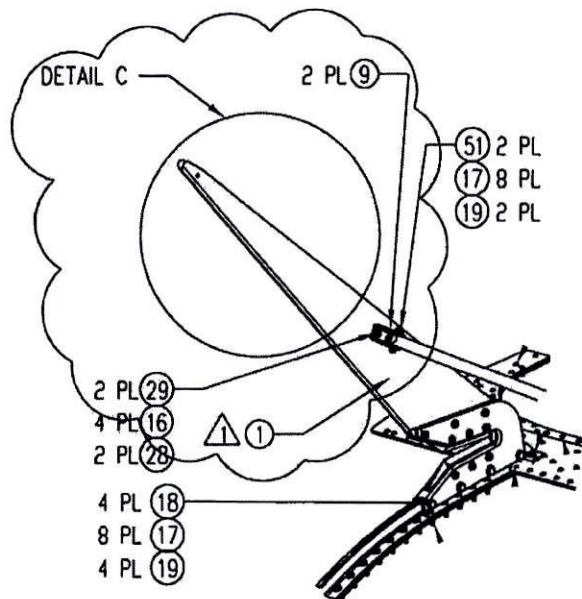
Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 03047				SHEET 1 OF 1	
	DWG NO. 646.9500	REV: NC	PREPARED BY J. JACKSON	DATE: 01/24/11	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 206 CABLE CUTTERS KIT					
APPROVED BY: ENGR. <i>[Signature]</i>		MFG. <i>[Signature]</i>		DC <i>[Signature]</i>		EFF: NEXT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: ADDED GPS MOUNT KIT, F/N 52. REVISED DRAWING VIEWS. ADDED NOTE 2.				

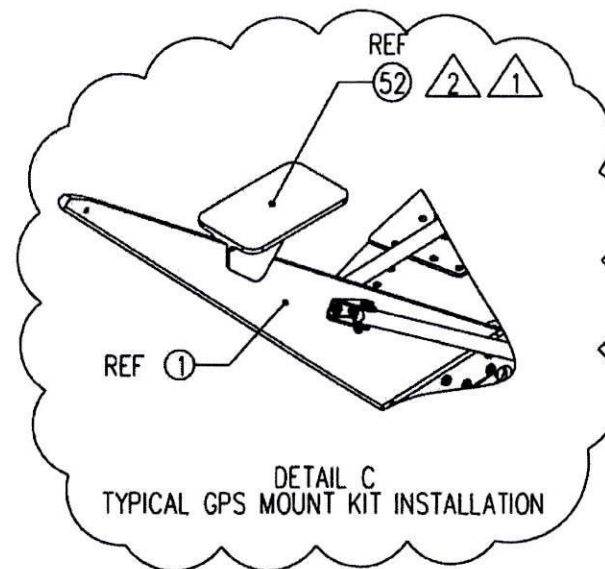
SHEET 1, ZONE B1 IS:

2 AT CUSTOMERS OPTION, INSTALL F/N 52 BY MATCH DRILLING ONTO F/N 1.

SHEET 2, ZONE A3 IS:



SHEET 2, ZONE B2 IS:



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 165979HLS
1709-00

52	A	647.5701	REF	REF	GPS MOUNT KIT	2	
F/N	TC	PART NUMBER	.9502	.9501	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					☐ MDL ☐ INSTALL INSTRUC ☐ ICA ☒ BOM	CHANGE CATEGORY ☐ MAJOR ☒ MINOR	DER REVIEW REQUIRED ☐ YES ☒ NO

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					

Root Cause			FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____				
Misidentified ☐	Past Due ☐					

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02736			SHEET 1 OF 1	
	DWG NO. 646.9500	REV: N/C	PREPARED BY S. HUFF	DATE: 01/06/10	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 206 CABLE CUTTERS KIT				
	APPROVED BY: ENGR <i>[Signature]</i>	MPD <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE	REASON: CORRECTED PARTS LIST ERRORS				

17	R	601.1607	62	62	WASHER	NAS1149F0332P
16	R	601.2764	111	111	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED: ☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						CHANGE CATEGORY ☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED ☐ YES ☒ NO

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02729				SHEET 1 OF 3	
	DWG NO. 646.9500	REV: N/C	PREPARED BY S. HUFF	DATE: 12/23/09	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 206 CABLE CUTTERS KIT					
APPROVED BY: ENGR <i>[Signature]</i>		MEG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER		
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: HARDWARE REVISIONS FROM FIRST INSTALL				

51	A	601.3155	8	8	BOLT	AN3-10A
50	A	601.3153	5	5	SCREW	MS24694S8
41	R	601.2893	43	43	SCREW	MS27039-0811
28	R	601.2973	54	54	LOCKNUT	MS21042-08
18	R	601.2826	8	8	BOLT	AN3-11A
16	R	601.2764	127	127	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED: ☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						CHANGE CATEGORY ☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED ☐ YES ☒ NO

DQA: _____ Date: _____



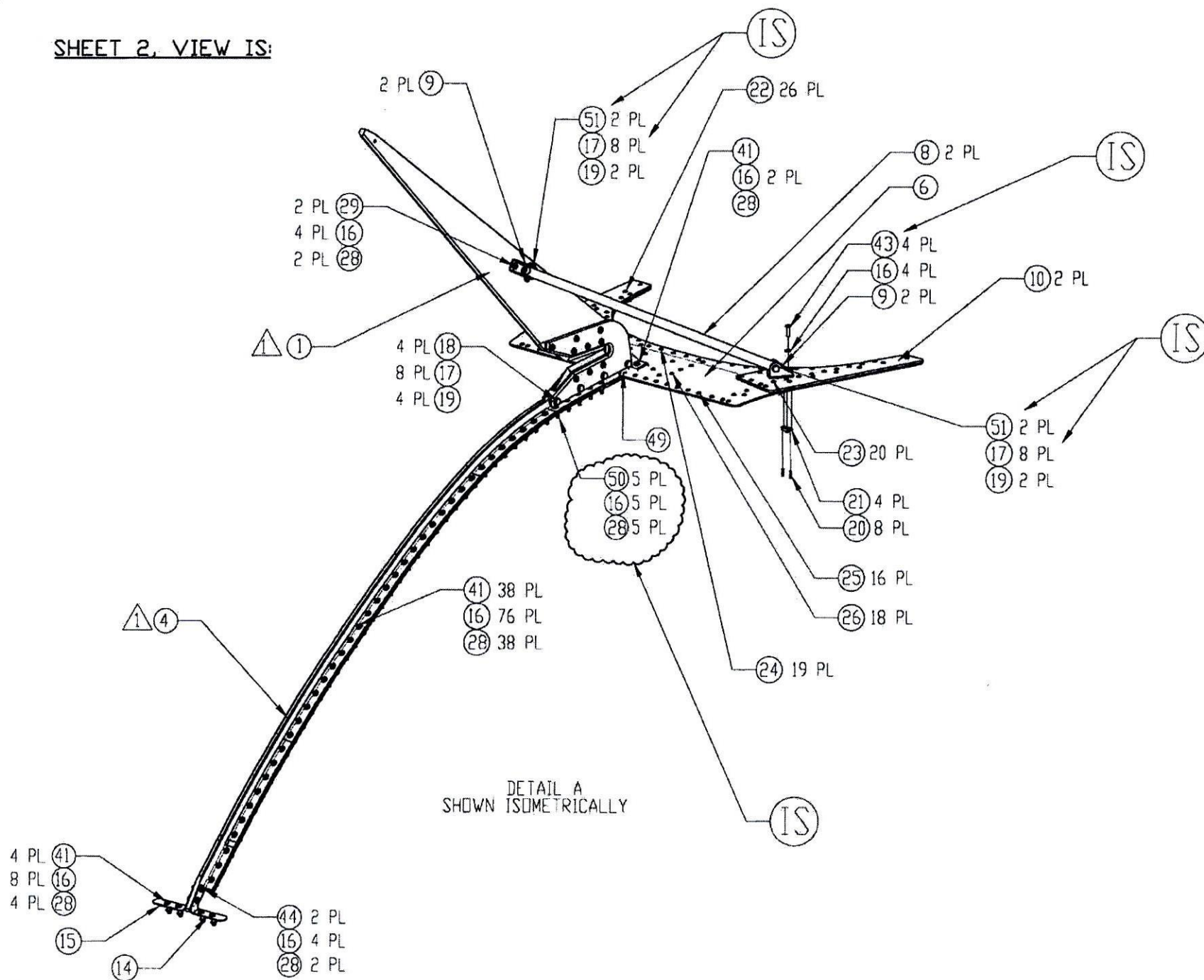
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval																																																									
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER :			
Misidentified ☐	Past Due ☐																																																																

SHEET 2, VIEW IS:



DQA: _____ Date: _____

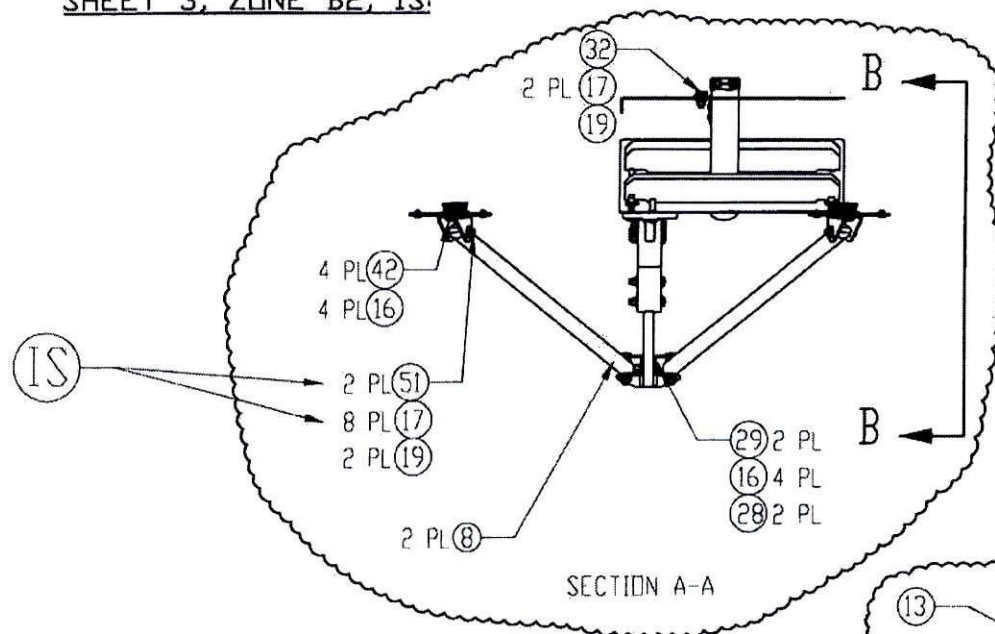
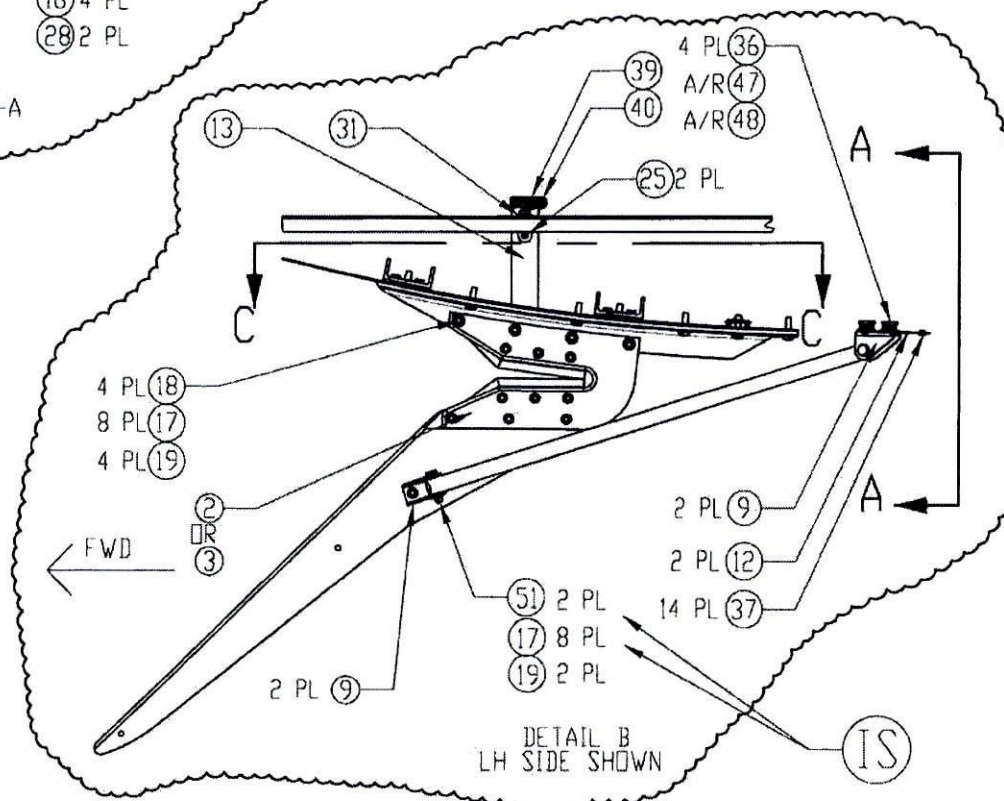


WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

SHEET 3, ZONE B2, IS:SHEET 3, ZONE D2, IS:

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval 		
Description Work Order Deviation				Disposition					
								Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	

Root Cause			FAULT CATEGORY							
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐	Power Loss/Surge	☐	Positioned Wrong
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐	Folio/Program	☐	Outside Dimensions
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐	Grain	☐	Over/Under tolerance
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐	Weld	☐	Part Incorrect
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐	Wrong Stock Pulled	☐	Part Lost/Missing
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐	Out of Sequence	☐	Part Moved
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐	Off-set	☐	Drawing
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐	Mislabeled	☐	Finish
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐	Fit/Function	☐	Misread
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐	Misaligned/off center	☐	Turning Sequence
Past Expiry Date ☐	☐	Manufacturing Process	OTHER : _____							
Misidentified ☐	☐	Past Due								

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐		OTHER : ☐ _____					

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

DETAIL A
SHOWN ISOMETRICALLY

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760)724-5300

206 CABLE CUTTERS KIT

DATE	2/2/88	BY	W. J. B.
DRAWN BY	P. POSNER	CHECKED BY	D. BARKER
APPROVED BY		DATE	
CONTRACT NO.			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES	SHEET B	CAGE CODE 07M26	DWG. NO. 646.9500	REV. N/C
SCALE: NONE		SHEET 2 OF 2		

ORIGINAL DATE 02/24/14 10:00 AM DRAWING BY R. HEDLEY CHECKED BY R. HEDLEY DRAWING APPROVAL P. BRADY REVISIONS CONTRACT NO.	APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760)724-5300
206 CABLE CUTTERS KIT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 1/16" FRACTIONS DECIMALS 1/16" FRACTIONS .001 1/16" DECIMALS .001 1/16" DECIMALS .001	LIFE 1 CASE CODE DWS 140 646.9500 PER N/C SCALE NONE SHEET 2 OF 3

DQA: _____ Date: _____



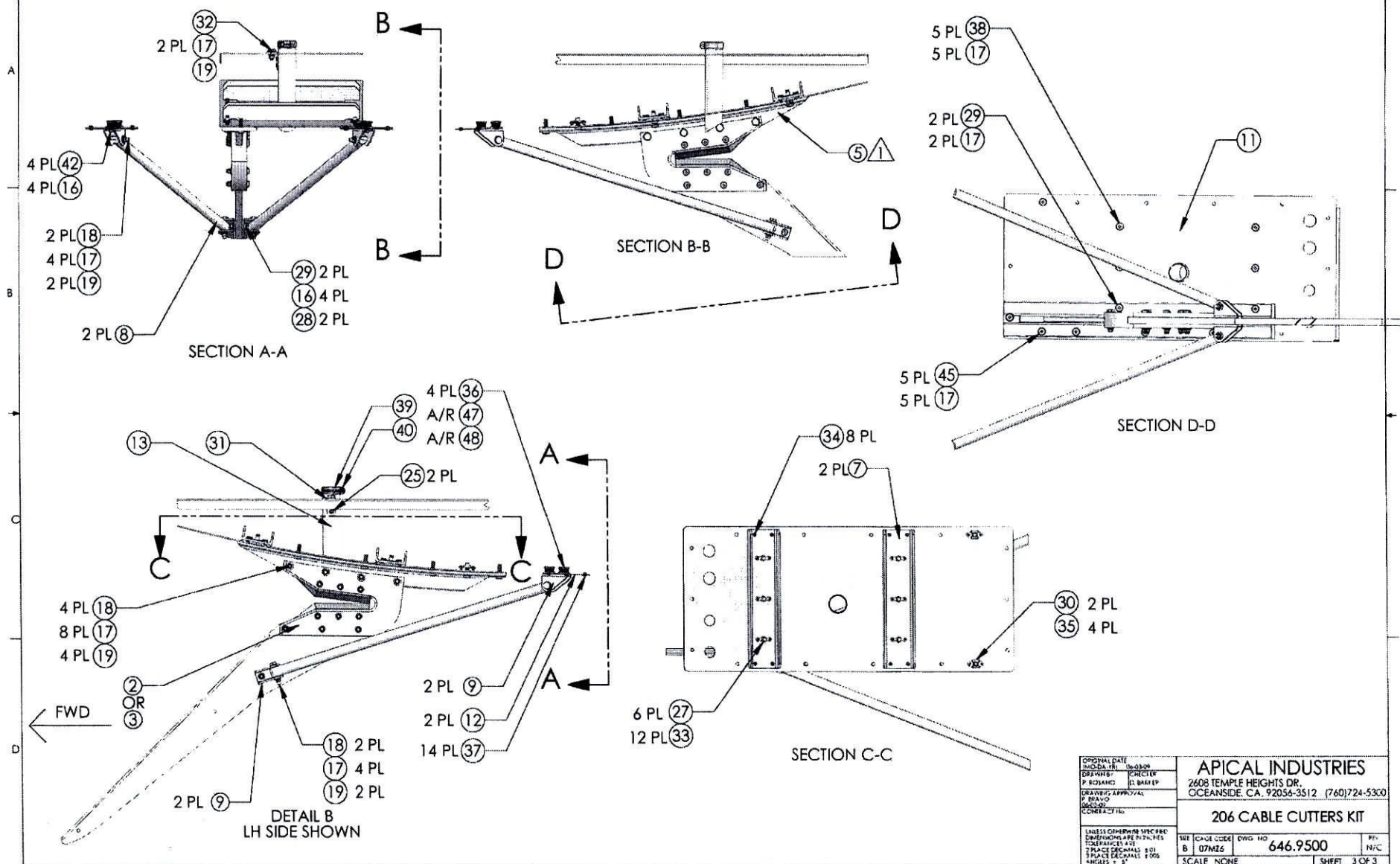
WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								

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ORIGINAL DATE 10-01-08		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY P. BOJANG		CHECKED BY D. BAKER	
DRAWING APPROVAL P. BOJANG		206 CABLE CUTTERS KIT	
CONSTRUCTION 1. UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE 3 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		SHEET CODE B 07N36	DWG NO 646.9500
SCALE NONE		SHEET 3 OF 3	

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : _____					



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Master Unit 000285

Tel (613) 632-5200

Containers on Master Unit 000285				
Serial No	Part No	Customer Part No	Status	Quantity
S037245	600.0990	600.0990	Allocated	1
S037244	600.0991	600.0991	Allocated	1
S037241	600.1012		Allocated	1
S037240	646.9810	646.9810	Allocated	1
S037238	647.0111		Allocated	1
S037231	647.0114	647.0114	Allocated	1
S037230	647.0115	647.0115	Allocated	1
S037192	647.0116	647.0116	Allocated	2
S037233	647.0210	647.0210	Allocated	1
S037232	647.0310	647.0310	Allocated	2
S037189	647.0410		Allocated	1
S037188	647.1210		Allocated	1
S037173	AN3-10A	AN3-10A	Allocated	8
S037171	AN3-11A		Allocated	8
S037169	AN3-3A	AN3-3A	Allocated	1
S037168	AN743-13		Allocated	1
S037167	CCR264SS-3-06		Allocated	8
FM138238	CCR264SS3-02		Allocated	2
S037166	CCR264SS3-02		Allocated	2
S037160	CCR264SS3-04		Allocated	12
S037159	CR3212-4-04		Allocated	1
S037157	CR3212-5-4		Allocated	8
S037156	CR3213-4-05		Allocated	26
FM138336-1	CR3213-4-1	CR3213-4-1	Allocated	6
S037155	CR3213-4-1	CR3213-4-1	Allocated	8
S037154	CR3213-4-2	CR3213-4-2	Allocated	18
S037153	CR3213-4-3		Allocated	18
S037152	CR3213-4-4		Allocated	19
S037151	CR3213-4-6		Allocated	20
S037150	MS21042L08		Allocated	54
S037149	MS21047-3		Allocated	6
S037147	MS21059-3		Allocated	2

exp. 06/2018

S054101 exp. 11/2018

F165122

S055822

F106616

F106617

S021684

S019474

S031783

F159856

S037238

S037146	MS21059L08		Allocated	4
S037145	MS24694-S8		Allocated	5
S037144	MS27039-08-06		Allocated	4
S037143	MS27039-08-09		Allocated	4
FM138336-0	MS27039-08-11		Allocated	40
S037142	MS27039-08-11		Allocated	3
S037140	MS27039-08-12		Allocated	2
S019320	MS27039-08-13	MS27039-08-13	Allocated	296
S037138	MS27039-1-08		Allocated	5
S037137	MS27039-1-11		Allocated	5
S037136	MS35842-11		Allocated	1
S037135	NAS1149F0332P		Allocated	62
S037132	NAS1149FN832P		Allocated	111
S037130	NAS1835-08		Allocated	4

647.0113 ~~S040779~~ X2 5025849
 647.0112 S044977 X8
 647.0110 S042643 X4
 646.9910 S036048 X4
 646.9603 S060200 X1
 646.9601 S060187 X1
 MS21042L3 S046501 17x

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02736				SHEET 1 OF 1	
	DWG NO. 646.9500	REV: N/C	PREPARED BY S. HUFF	DATE: 01/06/10	EFFECT ON DWG ☐ INC. ☒ UNINC.	
	DWG TITLE: 206 CABLE CUTTERS KIT					
APPROVED BY:		ENGR. <i>[Signature]</i>	MFR. <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE		REASON: CORRECTED PARTS LIST ERRORS				

17	R	601.1607	62	62	WASHER	NAS1149F0332P
16	R	601.2764	111	111	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED:						CHANGE CATEGORY
☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED
						☐ YES ☒ NO

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 02729				SHEET 1 OF 3	
	DWG NO. 646.9500		REV: N/C	PREPARED BY S. HUFF	DATE: 12/23/09	EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: 206 CABLE CUTTERS KIT					
	APPROVED BY:	ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF: CURRENT ORDER	
TRANSACTION CODES (TC) A-ADD C-CREATE R-REVISE D-DELETE		REASON: HARDWARE REVISIONS FROM FIRST INSTALL				

REFERENCE ONLY

51	A	601.3155	8	8	BOLT	AN3-10A
50	A	601.3153	5	5	SCREW	MS24694S8
41	R	601.2893	43	43	SCREW	MS27039-0811
28	R	601.2973	54	54	LOCKNUT	MS21042-08
18	R	601.2826	8	8	BOLT	AN3-11A
16	R	601.2764	127	127	WASHER	NAS1149FN832P
			9502	9501		
F/N	TC	PART NUMBER	QTY		DESCRIPTION	MATERIAL/SPECIFICATION
DOCUMENTS EFFECTED: ☐ MDL ☒ INSTALL INSTRUC ☒ ICA ☐ FMS ☒ BOM						CHANGE CATEGORY ☐ MAJOR ☒ MINOR
						DER REVIEW REQUIRED ☐ YES ☒ NO

REFERENCE ONLY

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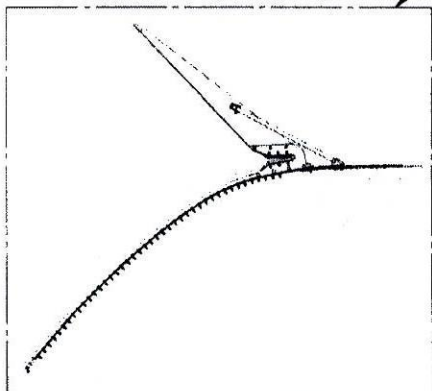
NOTES:

1 AFTER INSTALLATION, APPLY F/N 46 A/R TO FILL GAPS AND FILLET EDGES

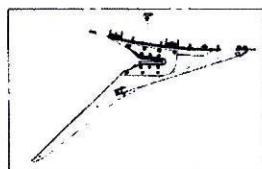
UNINCORPORATED ECN(S)

02729, 02736, 03047

DETAIL A



DETAIL B



QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
1	1	49	601.1066 RIVET	CR3212-4-4	
1	1	48	600.0991 MAGNABOND 6398 PART B		
1	1	47	600.0990 MAGNABOND 6398 PART A		
1	1	46	600.1012 SEALANT	PP-1455 CLASS B	
5	5	45	601.1949 SCREW	MS27539-1-11	
2	2	44	601.2989 SCREW	MS27009-0812	
4	4	43	601.2987 SCREW	MS27009-0809	
4	4	42	601.3000 SCREW	MS27009-0806	

REV	DESCRIPTION	DATE	APPROVED
1	LAST PROGRESSIVE RE-REACH PR		INC
2	RE-REACH PR		INC

REV	DESCRIPTION	DATE	APPROVED
1	LAST PROGRESSIVE RE-REACH PR		INC
2	RE-REACH PR		INC

QTY	FIND #	PART #	DESCRIPTION	MATL	SPEC.
47	47	41	601.2893 SCREW	MS27009-0811	
1	1	40	601.2982 HOSE CLAMP	MS35042-11	
1	1	39	647.1210 SCREEN		
5	5	38	601.1621 SCREW	MS27009-1-08	
14	14	37	601.2979 RIVET	CR3213-4-1	
4	4	36	601.2984 INSERT	MS1835-08	
4	4	35	601.2277 RIVET	CR3213-4-1	
8	8	34	601.2983 RIVET	CR3213-4-1	
12	12	33	601.2980 NUTPLATE RIVET	CR3213-4-1	
1	1	32	601.2822 BOLT	AN3-3A	
1	1	31	601.2985 BRACKET	AN743-10	
2	2	30	601.1900 NUTPLATE	MS21005-3	
6	6	29	601.2988 SCREW	MS27009-0813	
53	53	28	601.2973 LOCKNUT	MS21042-08	
6	6	27	600.0795 NUTPLATE	MS21042-08	
18	18	26	601.0790 RIVET	CR3213-4-3	
18	18	25	601.1039 RIVET	CR3213-4-2	
19	19	24	601.1915 RIVET	CR3213-4-4	
20	20	23	601.2991 RIVET	CR3213-4-6	
26	26	22	601.1183 RIVET	CR3213-4-5	
4	4	21	601.2356 NUTPLATE	MS21050-08	
8	8	20	601.2981 NUTPLATE RIVET	CR3213-4-6	
17	17	19	601.2943 LOCKNUT	MS21042-3	
16	16	18	601.2826 BOLT	AN3-11A	
46	46	17	601.1607 WASHER	MS21042-08	
114	114	16	601.2764 WASHER	MS21042-08	
1	1	15	647.0115 CLIP		
1	1	14	647.0114 CLIP		
1	1	13	647.0410 TUBE		
2	2	12	647.0116 DOUBLER		
1	1	11	647.0111 PANEL		
2	2	10	647.0113 STRUT DOUBLER		
8	8	9	647.0112 STRUT BRACKET		
4	4	8	646.9910 STRUT		
2	2	7	647.0310 CHANNEL		
1	1	6	647.0110 ROOF DOUBLER		
1	1	5	647.0210 RAIL		
1	1	4	646.9810 DEFLECTOR		
1	1	3	646.9603 LOWER CUTTER ASSY LOW		
1	1	2	646.9602 LOWER CUTTER ASSY HIGH		
1	1	1	646.9601 UPPER CUTTER ASSY		
			206 CABLE CUTTERS KIT LOW		
			206 CABLE CUTTERS KIT HIGH		

QTY	DESCRIPTION	MATL	SPEC.
1	206 CABLE CUTTERS KIT LOW		
1	206 CABLE CUTTERS KIT HIGH		

QTY	DESCRIPTION	MATL	SPEC.
1	206 CABLE CUTTERS KIT LOW		
1	206 CABLE CUTTERS KIT HIGH		

QTY	DESCRIPTION	MATL	SPEC.
1	206 CABLE CUTTERS KIT LOW		
1	206 CABLE CUTTERS KIT HIGH		

APICAL INDUSTRIES
2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA 92056-3512 (760)724-5300

206 CABLE CUTTERS KIT

REV 8 07/26 646.9500 N/C

SCALE NONE SHEET 1 OF 3